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segment coupled to the shaft segment; where the uptake lumen distal end is terminated by a closed surface, further where the uptake lumen distal segment includes only one side hole. In a third embodiment, the catheter includes: an uptake lumen; and a return lumen; where at least a portion of the return lumen distal segment is helically coiled around the uptake lumen distal end.

REMARKS

Pursuant to the Examiner's request, submitted herewith is an amendment to the abstract.

Attached hereto is a marked-up version of the changes made to the abstract by the current amendment. The attached page is captioned "Version with markings to show changes made".

In the unlikely event that the transmittal letter is separated from this document and the Patent Office determines that an extension and/or other relief is required, Applicant petitions for any required relief including extensions of time and authorizes the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing docket no. 375952000200.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

A catheter is described. In one embodiment, the catheter includes: a shaft segment[, the shaft segment including a proximal end of the catheter and a shaft segment central axis, the shaft segment further] including a shaft segment uptake lumen and a shaft segment return lumen; and a distal end segment coupled to the shaft segment, the distal end segment [including a distal end of the catheter and a distal end segment central axis, the distal end segment further] including a distal end segment uptake lumen and a distal end segment return lumen[, where the distal end segment uptake and return lumens are coupled to the shaft segment uptake and return lumens, respectively]; where the distal end segment central axis forms a non-zero angle with the shaft segment central axis when the catheter is in its unstressed configuration. In a second embodiment, the catheter includes: a shaft segment[, the shaft segment including a proximal end of the catheter and a shaft segment central axis]; and a distal end segment coupled to the shaft segment[, the distal end segment including a distal end of the catheter and a distal end segment central axis; where the distal end segment central axis is parallel to the shaft segment central axis when the catheter is in its unstressed configuration, further where the distal end segment includes a return lumen and an uptake lumen having a return lumen distal end and an uptake lumen distal end, respectively, further] ; where the uptake lumen distal end is terminated by a closed surface, further where the uptake lumen distal segment includes only one side hole. In a third embodiment, the catheter includes: an uptake lumen [including an uptake lumen shaft segment and an uptake lumen distal segment with an uptake lumen distal end]; and a return lumen [including a return lumen shaft segment and a return lumen distal segment with a return lumen distal end; where the uptake lumen shaft segment is substantially parallel to the return lumen shaft segment, further] ;where at least a portion of the return lumen distal segment is helically coiled around the uptake lumen distal end.